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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/541,063	06/29/2005	Koji Utsugi	8017-1172	3808
466 7590 07/22/2009 YOUNG & THOMPSON			EXAMINER	
209 Madison S		ENIN-OKUT, EDUE		
Suite 500 ALEXANDRI	A. VA 22314		ART UNIT	PAPER NUMBER
	,		1795	
			MAIL DATE	DELIVERY MODE
			07/22/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/541,063	UTSUGI ET AL.	
Examiner	Art Unit	
Edu E. Enin-Okut	1795	

	Edu E. Enin-Okut	1795					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence ad	dress				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D, Edensors of time may be available under the provisions of 37 GFR 1.1 after SIX (5) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period v Failure to reply within the sat or extended period for reply will, by statutory and potent term adjustment. See 37 GFR 1,704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this co D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 11 M	ay 2009.						
2a)⊠ This action is FINAL. 2b)☐ This	action is non-final.						
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the	merits is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) 1-16 is/are pending in the application.							
_ · · · · · · · · · · · · · · · · · · ·	4a) Of the above claim(s) 1-12 and 14-16 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) 13 is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) acc		Examiner.					
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the correct			R 1.121(d).				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).					
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No.							
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau	(PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D						

3) Information Disclosure Statement(s) (PTO/SE/06)

Paper No(s)/Mail Date 6/29/05.

- 5) Notice of Informal Patent Application.
 6) Other:

Application/Control Number: 10/541,063

Art Unit: 1795

ELECTROLYTE SOLUTION FOR SECONDARY BATTERY
AND SECONDARY BATTERY USING SAME

Detailed Action

1. The amendments filed on May 11, 2009 were received. Applicant has amended claim 13. (It is

acknowledged that claims 1-12, 14, 15 and 16 were cancelled in applicant's response, filed on October 1,

2008, to a requirement for election/restriction. Currently, claim 13 is pending.)

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a

prior Office action.

Priority

3. As to applicant's contention that it is not responsible for the provision of certified copies foreign

priority documents, Japanese Patent Application Nos. 2003-416516 and 2004-317301, upon review of

MPEP 1893.03(c) and PCT Rule 17, the examiner acknowledges that applicant is not responsible for

provision of copies of these documents if it has fully complied with PCT Rule 17.

Information Disclosure Statement

4. It is noted that the information disclosure statement (IDS) filed June 29, 2005 had failed to

comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609 at the time of the issuance of the

Office Action dated December 11, 2008 because translations of foreign non-patent literature documents

listed on the IDS were not on file. With the filing of its response to the above-described Office Action,

applicant has submitted English translations of these documents which have subsequently been

considered by the examiner. (Please note: Items lined-through on the IDS were previously considered.)

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Claim Rejections - 35 USC § 102

 The rejection of claim 13 is rejected under 35 U.S.C. 102(b) as being anticipated by Armand (US 4.818,644) is maintained. The rejection is repeated below.

Regarding claim 13, Armand teaches an ionically conductive material composed of a salt represented by one of the following formulas in a liquid or solid solvent with applications to electrochemistry (Abstract, 1:7-51):

$$M\begin{bmatrix} R\\ RF-SO_2-C-SO_2-RF \end{bmatrix}$$
 in which M is an alkali metal, alkaline earth metal, transition metal, or rare earth; RF and R'F, which are the same or different, each represents a perhalogenated, preferably

or rare earth; RF and RF, which are the same or different, each represents a perhalogenated, preferably perfluorinated group, having from 1 to 12 carbon atoms; and, R is hydrogen or an alkyl group having from 1 to 30 carbon atoms.

Armand teaches that the salt in solution in a liquid or solid solvent (e.g., aprotic solvents such as linear ethers such as diethyl ether, dimethoxyethane, or cyclic ethers such as tetrahydrofuran, dioxane, or dimethyltetrahydrofuran; esters such as methyl or ethyl formate, propylene or ethylene carbonate, or the butyrolactones; nitriles, acetonitriles, benzonitriles; nitrated derivatives such as nitromethane or nitrobenzene; amides such as dimethylformamide, diethylformamide, or N-methylpyrrolidone; and, sulfones such as dimethyl sulfone, tetramethylene sulfone, and other sulfolanes; and, polymers such as homopolymers or copolymers of ethylene oxide; polyphosphazenes; or imides) can be used as a liquid or solid electrolyte in an electrochemical generator, such as primary or secondary batteries (1:4-6, 1:52-67, 2:38-46). The salts have a high solubility in the solvents described above (1:67-68). The ionically conductive material includes the salt pursuant to one of the formula above, but it can also include a second salt or several other salts, provided that all of these salts have the same cation (2:9-13).

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Double Patenting

6. Claim 13 is provisionally rejected on the ground of nonstatutory obviousness-type double

patenting as being unpatentable over claims 1 and 12 of copending Application No. 10/582,855 is

maintained. The rejection is repeated below.

Although the conflicting claims are not identical, they are not patentably distinct from each other

because the instant application claims an electrolyte additive. The disclosure of the instant application

differs from Application No. 10/582,855 in that the instant application does not teach the use of the

additive in a secondary battery. However, if would have been obvious to one of ordinary skill in the art at

the time of the invention to use the additive in a lithium secondary battery to improve its capacity

retention ratio and suppress an increase of resistance during storage (see instant application disclosure.

para, 32).

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims

have not in fact been patented.

Response to Arguments

Applicant's arguments filed May 11, 2009 have been fully considered but they are not persuasive.

8. Applicant makes the following contention that,

"... claim 13 is amended to include the negative limitation "with the provise that R_1 cannot be a hydrogen atom, when R_4 is an alkyl group having 1 to 5 carbon atoms, and R_4 cannot be a hydrogen atom, when R_1 is an alkyl group having 1 to 5 carbon atoms". This amendment

excludes the compound (in col. 1, lines 7-51) in Armand relied upon by the Examiner in making this rejection. Therefore, the present amendment renders the rejection moot. ...",

(see p. 7-8 of its remarks).

It should be noted that the amendment described above does not exclude a structure where both R1 and

R4 are hydrogen, and that Armand reference discloses such a structure, as discussed in the rejection of

claim 13 above.

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Conclusion

9. The following prior art made of record and not relied upon is considered pertinent to applicant's

disclosure: Michot et al. (US 6,620,546) teaches ionic compositions having a high ionic conductivity

comprising a salt with a delocalized anionic charge with use as an electrolyte in electrochemical devices,

as catalyst of chemical reactions, or as photochemical or thermochemical initiator for polymerization or

crosslinking reactions (Abstract).

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office

action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is

reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from

the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing

date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH

shortened statutory period, then the shortened statutory period will expire on the date the advisory action

is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX

MONTHS from the date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Edu E. Enin-Okut whose telephone number is 571-270-3075. The examiner can normally

be reached on Monday - Thursday, 7 a.m. to 3 p.m. (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dah-Wei Yuan can be reached on 571-272-1295. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained

from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer

Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR

CANADA) or 571-272-1000.

/Edu E. Enin-Okut/ Examiner, Art Unit 1795

/Dah-Wei D. Yuan/ Supervisory Patent Examiner, Art Unit 1795